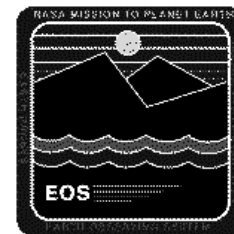# GUI Workshop I

Client Subsystem - Rel. A Desktop

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Outline of Desktop Presentation

Part 1: Desktop Overview

- What the Desktop is and Why is it Useful to You
- Relationship to Standards
- Desktop Layout Overview
- Common ECS Menubar
- Access to Operator Functions
- Key Entry Points to ECS Functionality

Part 2: Functional Characteristics and Demo

- Invoking the Desktop
- Desktop Objects and Actions
- Directory Traversal and Views
- Multiple Selection
- Drag and Drop
- User Preferences
- Other Features (under development)

What is the Release A Desktop and Why it's Useful to You

Purpose of the ECS Desktop:

- **Key entry points to ECS functionality**

- **Launches ECS applications (UNIX GUI tools)**

  e.g., the Search and Order Tool [V0 client]

- **Launches <u>non</u>-ECS applications**

- **Organizes applications and files into folders just like a File Manager**

- **WYSIWYG interface -- simple point-and-click access to complicated processes**

- **Provides integrated user interface environment**
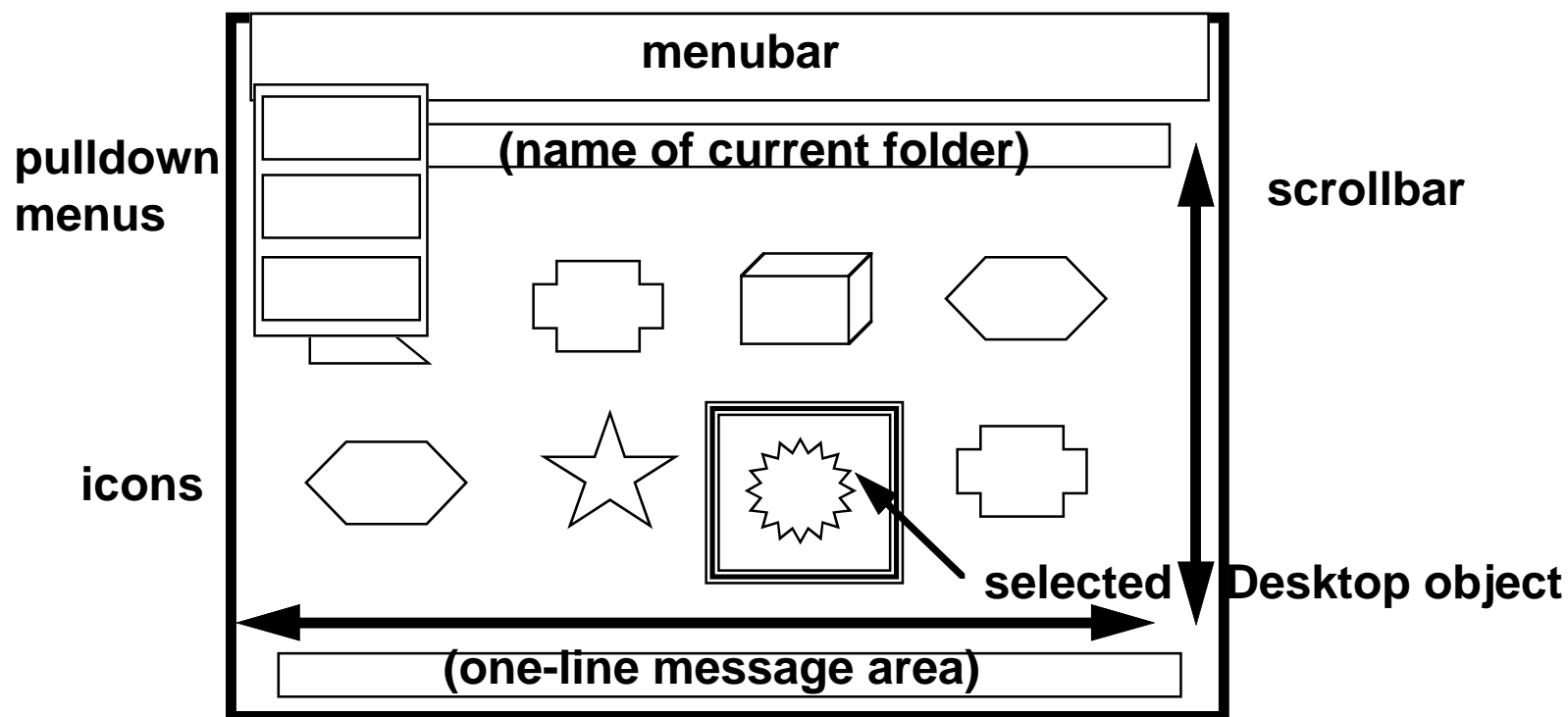
Relationship to Standards

ECS Desktop is based on several standards:

- X Window System - X11 Release 5
- Open Software Foundation (OSF) / Motif 1.2.4
- Common Desktop Environment (CDE) - also OSF
- Microsoft Windows and MacOS metaphors

Rel. A Desktop _simulates_ CDE look and feel

Desktop Layout Overview

- **Uses common Motif interface objects: windows, menubar with pulldown menus, message areas, icons, and scrollbars**

menubar

pulldown menus

(name of current folder)

scrollbar

icons

selected ▼ **Desktop object**

(one-line message area)
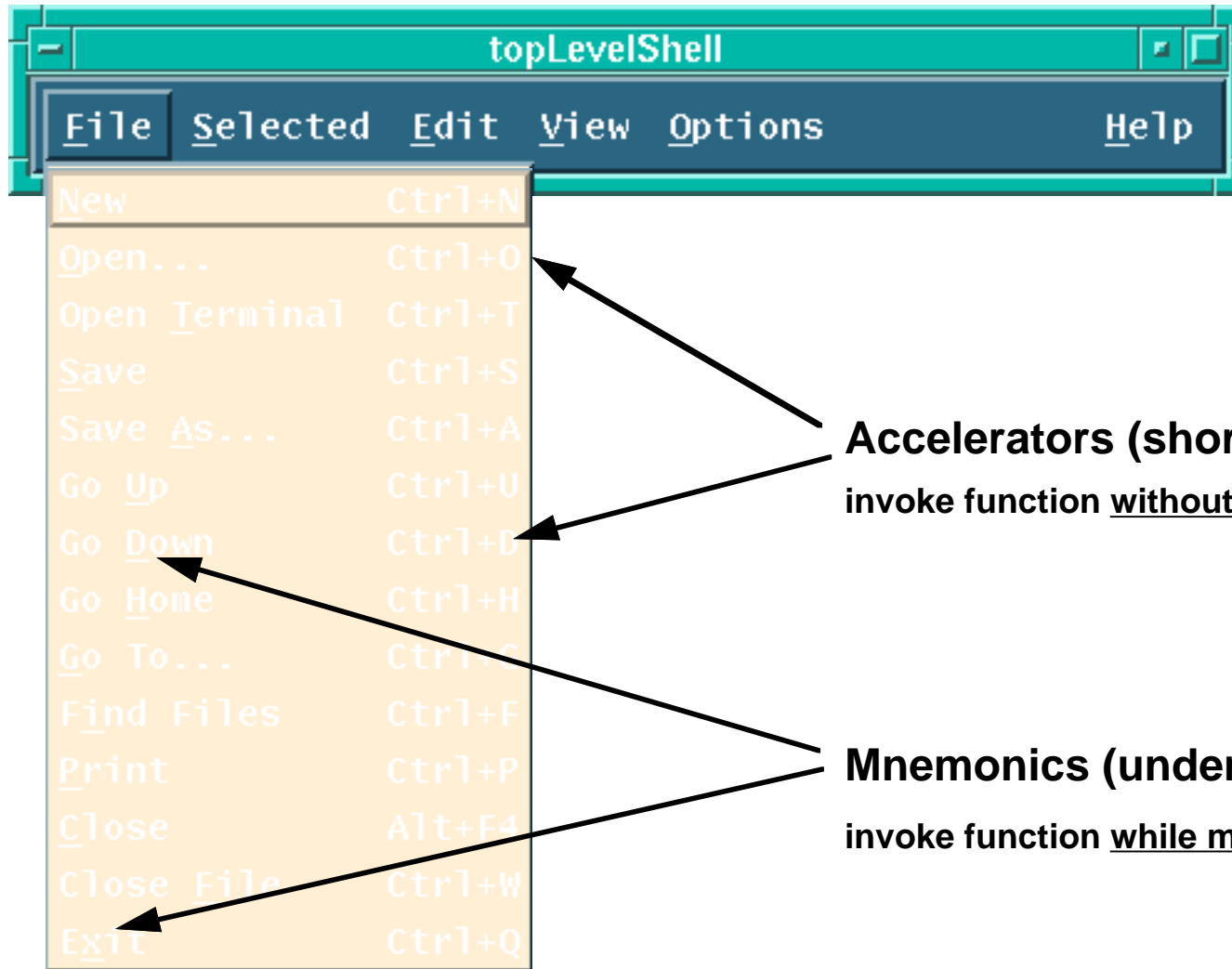
Common ECS Menubar

- Same wording used in all ECS applications

- Learning one application makes it easier to learn all ECS applications

- Menubar functions appear in same toplevel menu
  (e.g., "Print" is always under the "File" menu)

- *Accelerator* (keyboard shortcut) which invokes a given function is always the same

  (e.g., <CTRL> + P always invokes "Print")

- *Mnemonic* (single letter) which selects a choice from a menu while it is posted (pulled down) is always the same

  (e.g., 'P' is the mnemonic for "Print")

- Choices <u>omitted</u> if application doesn't need them

Toplevel ECS Menubar

```
┌─────────────────────────────────────────────────────────┐
│ [─]            topLevelShell                      [▪] [□] │
├─────────────────────────────────────────────────────────┤
│  File  Selected  Edit  View  Options              Help   │
└─────────────────────────────────────────────────────────┘
```

- "File" and "Help" pulldown menus are invariant across all ECS applications.

- Other menus are included if and only if they apply to a particular application.

- If included, they always appear in this order and with these titles.

- Same rules pertain to <u>choices</u> under any of these menus.

- Choices are dimmed (grayed out) only if they can be available depending upon a different context (e.g., "Paste" dimmed until "Copy" selected).
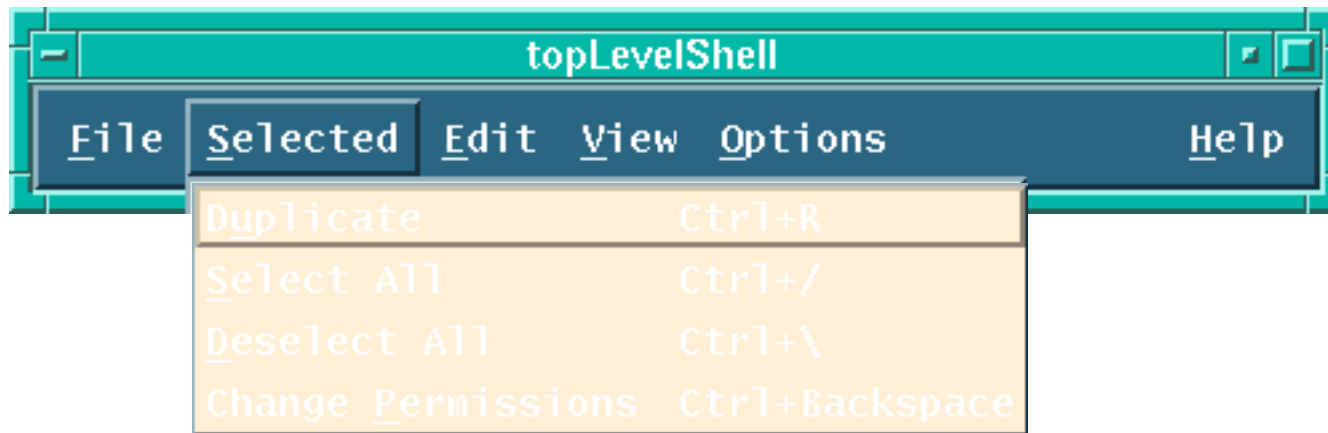
File Menu

topLevelShell

| File | Selected | Edit | View | Options | | Help |

New	Ctrl+N
Open...	Ctrl+O
Open Terminal	Ctrl+T
Save	Ctrl+S
Save As...	Ctrl+A
Go Up	Ctrl+U
Go Down	Ctrl+D
Go Home	Ctrl+H
Go To...	Ctrl+G
Find Files	Ctrl+F
Print	Ctrl+P
Close	Alt+F4
Close File	Ctrl+W
Exit	Ctrl+Q

Accelerators (shortcut)

invoke function <u>without</u> posting menu

Mnemonics (underlined)

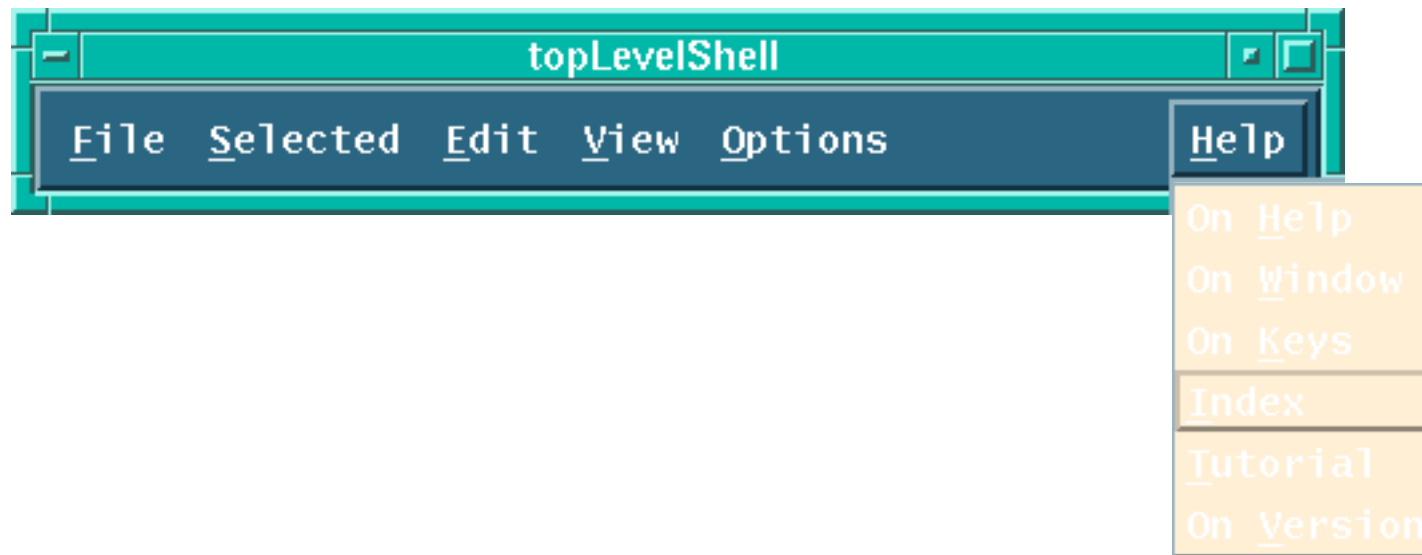**invoke function <u>while menu is posted</u>**

Selected Menu

topLevelShell	
File **Selected** **Edit** **View** **Options**	**Help**

Duplicate	Ctrl+R
Select All	Ctrl+/
Deselect All	Ctrl+\
Change Permissions	Ctrl+Backspace

Edit Menu

topLevelShell					
File	Selected	Edit	View	Options	Help

Undo	Ctrl+Z
Cut	Ctrl+X
Copy	Ctrl+C
Paste	Ctrl+V
Clear	Ctrl+Zero
Delete	Delete
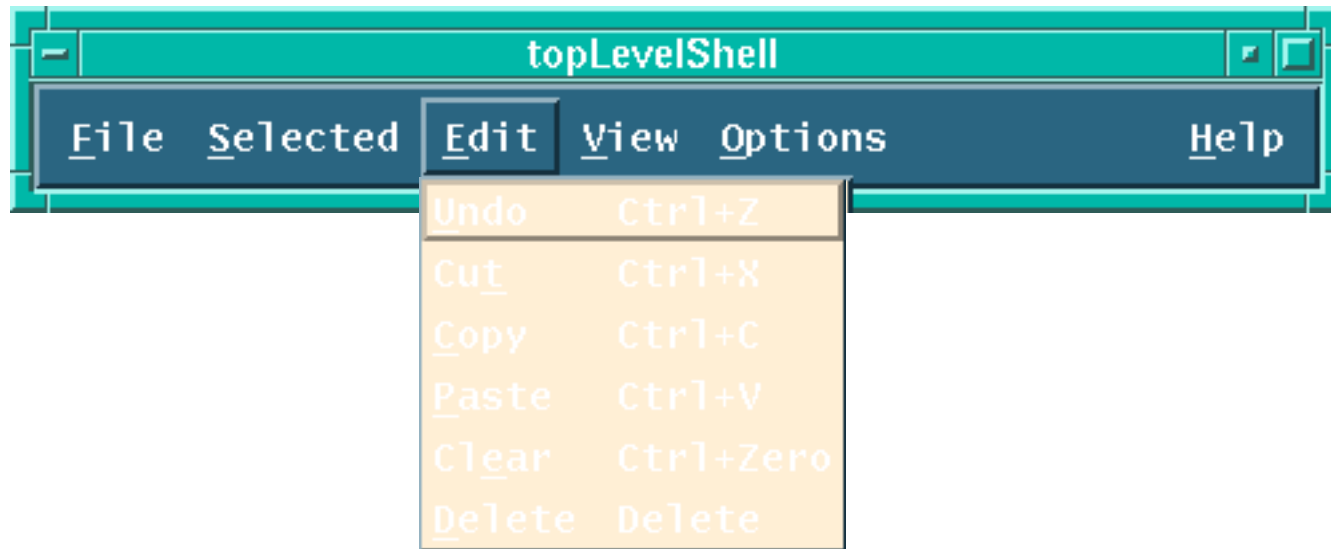
Note: "View" and "Options" do not have standard choices.

Help Menu

topLevelShell

File   Selected   Edit   View   Options   Help

On Help
On Window
On Keys
Index
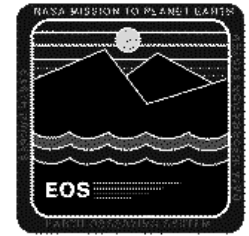Tutorial
On Version

User Customization

Normal Motif / X11 customization aspects

- Moving and resizing Desktop window
- Fonts
- Foreground and background colors

Preferences Unique to the ECS Desktop

- will be discussed by Padmaja Prabhala

Access to Operator Functions

Desktop provides access to different types of operator software:

- **Custom ECS Motif applications**

- **COTS software (Motif-based or other)**

- **HTML pages via external web browser**

    (Netscape provided to DAACs)

Key Entry Points into ECS

- **Search and Order Tool (V0 client)**
- **EOSView**
- **Advertising Service**
- **Ingest**
- **Planning and Data Processing (PDP)**
- **Data Server**
- **Systems Management (MSS)**
  - Trouble Ticketing
  - Event Log Browser
  - ECS User Account Request
  - Request Scheduling
  - Database Loading and Archiving

Key Entry Points into ECS